DINAMAP®

PRO 1000
Configuration Manual

CRITIKON
VITAL ANSWERS™

DINAMAP® PRO 1000

Configuration Manual

CRITIKON
VITAL ANSWERS™

Revision: 777-365 A 2000

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Printed in USA.

Contact Us!

United States
Critikon, L.L.C.
4502 Woodland Corporate Blvd
Tampa, FL 33614

Toll Free
1.877.CRITIKON
(274.8456)

United Kingdom
Critikon LTD
Monitor House
Unit 3 Cherrywood
Chineham Business Park
Basingstoke
Hants RG24 8WF

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Introduction

Scope of Manual

This manual provides configuration information for the DINAMAP® PRO 1000 Monitors (otherwise referred to as PRO 1000. This manual is intended for use by biomedical engineers.

To achieve satisfactory results, this manual must be read thoroughly before attempting to perform any procedures.

For information about operating the Monitors in a clinical setting, refer to the separate ops manual.

For information about servicing the Monitor, refer to the separate PRO 1000 Monitor Service Manuals.

Required equipment

Procedures within this document require specific equipment to safely perform the outlined tasks. Failure to use the specified equipment will likely result in damage to the monitor. Contact your Critikon Sales Representative or Critikon Customer Service to purchase these accessories.

Explanation of symbols

References information relevant to the current process, but not necessarily a critical step.

Warning Symbol. This symbol calls out details that are crucial. Failure to follow the listed procedures may cause the test to fail or induce damage to the Monitor.

Manual Changes

If, in the normal use of this manual, you notice errors, omissions, or incorrect data, or if you can suggest comments that may help improve this manual, please inform:

CRITIKON L.L.C.
Technical Publications
4502 Woodland Corporate Boulevard
Tampa, Florida 33614

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Configuration Mode

Purpose

Configuration mode is an off-line, password-protected mode of the DINAMAP PRO 1000 Monitor. Its main purpose is to allow each Monitor to be fully customized for up to six different monitoring situations. For example, in a labor and delivery unit, this Monitor can easily transition between the needs of a mother (adult) and baby (neonate). One default table can be configured with alarm limits and other monitoring settings appropriate for the mother and a different default table can be configured for a newborn baby. Simply select the appropriate configuration before connecting the baby, and the Monitor re-configures itself in seconds. Or, if your PRO 1000 is used by several different departments within the hospital, each department could set up its own customization. As the Monitor follows the patient from the operating room to the post-anesthesia care unit and then to a med-surg floor, the caregiver in each department can choose the appropriate default table for monitoring the patient.

Configuring Multiple Monitors

Once you have configured one Monitor, it's easy to configure the other Monitors in your unit. This can be accomplished in two ways: 1) the configuration of one Monitor can be transferred directly to other Monitors, or 2) the configuration of one Monitor can be transferred to a file on a PC, then that file can be transferred to other Monitors. Monitor-to-PC transfers require the DINAMAP MPS Configurator Tool. All configuration transfers are controlled through configuration mode.

Registering your Configuration File

As a precaution, we recommend that you register your configuration file with us. Then, if your unit malfunctions and the configuration is not retrievable, we can restore the settings according to the file on record. If, on the other hand, the Monitor's configuration is retrievable, the CRITIKON Service Department will copy your Monitor's configuration. Then after the servicing is complete, we will restore its configuration according to this file.

Additional functionality accessible through configuration mode is changing the Monitor's time and date, and preparing it for communication with external devices. This manual covers all of these uses.

How to Enter Configuration Mode

1. Choose **other system settings** from the Main Menu.
2. Choose **go to config mode**.
   The message **This will initiate the sequence for entering Configuration Mode. Do you want to do this?** appears.
3. Choose **Yes** to enter configuration mode.
4. The message **To enter the password, turn the SelectKnob to move the pointer to the desired character. Press the SelectKnob to enter the character.** appears.

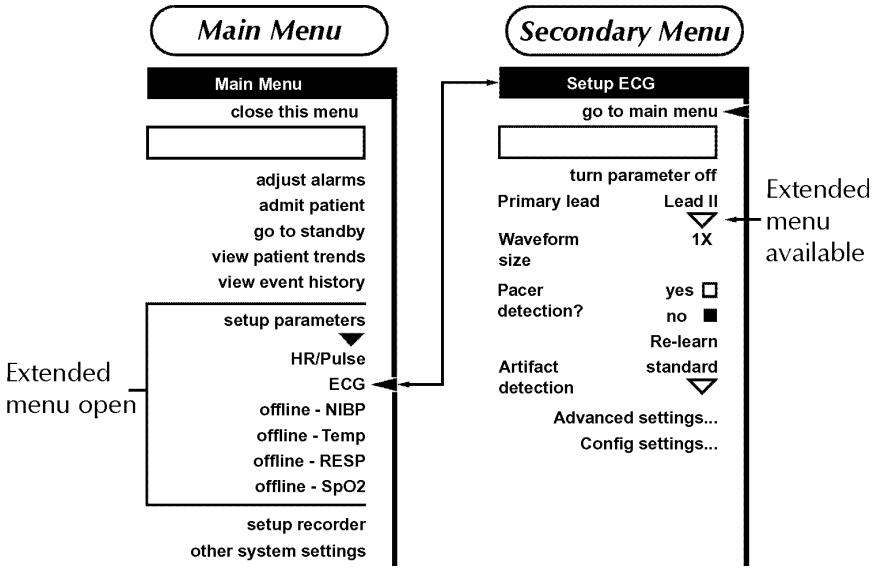
   FACTORY SET CONFIG PASSWORD: **2508**

5. Choose **DONE**.
6. Wait while the system automatically restarts in configuration mode. Press the SelectKnob to access the **Configuration** Menu**.**

Customizing Your Monitor

Menus

In the **Main** menu and in most secondary menus, extended menus are a means of accessing additional options. The **Main** menu has one extended menu (**Setup parameters**), and most secondary menus have one or more extended menus. For example, the **Setup EKG** menu (shown in the figure) has six extended menus. An extended menu is signified by a symbol under the menu option. When you choose the ▽ symbol, an extended menu appears, and you can then choose from the available options.



Relationship of Main Menu to Secondary Menus

Associated menus, signified by "**...**" (i.e. an ellipsis), are accessed from secondary menus and offer related menu options. **Advanced settings** and **config settings** (configuration settings) are **associated menus**. Once an associated menu is accessed, a new menu appears.

Regular, Advanced and Config Settings

In general, each secondary menu is divided into three different sections: regular settings, advanced settings and config settings. Regular settings are displayed when the secondary menu is initially opened. As part of these regular settings, the last two choices are usually **Advanced settings** and **Config settings**. While a patient is being monitored (i.e., clinical mode), all regular and advanced settings can be viewed and modified. **Config settings**, however, can be viewed in clinical mode but cannot be modified. In configuration mode, all settings, regular, advanced and config, can be viewed as well as modified.

Default Tables

This Monitor can be fully customized to meet the needs of several different monitoring situations. All modifiable settings are combined together to form what is known as a single default table. The Monitor maintains six of these default tables.

Each table should be configured for a single patient type (e.g., neonate). From the factory, the first five tables contain adult factory defaults and the sixth table contains neonate factory defaults. In configuration mode, however, any table can be configured for a particular patient population. Before configuring a table, consider your patient population. Then, select the appropriate patient type (either adult or neonate). Upon selection, the Monitor automatically resets to the factory default settings appropriate for the selected patient type. These settings can then be modified as necessary. It is recommended that at least one table be configured for every patient population that will use this Monitor.

Hints

- *Bed and unit numbers* - Configure differently for each default table by selecting **enter bed number** and **enter unit number** from the **Admit patient** menu.
- *Configuring parameter settings* - Parameters are initially set off-line for each table. To configure the settings for a particular parameter, select the desired parameter from the **Configuration** menu.
- *Configuring settings for IP labels* - Configure menu settings for multiple invasive pressure labels by choosing the first label from the **Configuration** menu. Configure the associated menu settings so that they are appropriate for that label (i.e., scale, limits, etc.). To configure settings for another label, choose the new label from the **Select label** menu choice. The menu settings will change accordingly and you can modify any as necessary. Repeat this process as necessary until all settings for all labels have been configured.
- *Reset ALL to factory* - To return all six tables to their factory defaults (defaults 1 to 5 = adult, default 6 = neonate), choose **other system settings** from the **Configuration** Menu and then selecting **reset ALL to factory**.
- *Language* - Several different languages are available on this Monitor. The **Language** menu choice is accessed by choosing **other system settings** from the **Configuration** Menu and then choosing **Config settings**. If a new language is chosen, the screen immediately displays the screen in that language. **Note:** Except for changing the time and date, all configuration changes, including the selection of a new language, are not saved in association with a particular default table until you choose **save default changes**.

How to Configure Default Tables

While configuring your Monitor, we recommend you complete the provided Configuration Log and retain it for your records.

1. Make sure your Monitor is in configuration mode.
2. Choose **admit patient** from the **Configuration** Menu.
3. Select **Choose patient settings**. Six defaults are available. From the factory they are labeled **default 1 - default 6**. Each represents one of six default tables ready to be configured. Choose the table you wish to configure.
4. The message ***All unsaved changes to the current default will be lost! Are you sure you want to do this?*** appears. Choose **Yes** to configure a table.
5. Select **Patient type** and either **adult** or **neonate**. Upon selection, the Monitor resets your default table to the appropriate factory settings. **Note:** ALL settings modified prior to selecting **Choose patient settings** and **Patient type** will be lost.
6. Change all other available settings as necessary.
7. Save your changes. To do this, choose **other system settings** from the **Configuration** Menu. Choose **save default changes**.
8. The message ***Enter the name for this default*** *appears*. To do this, turn the SelectKnob to move the pointer to the desired character and press the SelectKnob to enter that character. The name may contain up to ten characters.

To erase the current table name before entering a new table name, move the pointer to **BKSPACE** and press the SelectKnob until the name is erased.

9. After entering the name, choose **DONE**. Your data will be saved.

Repeat steps 2 through 10 for configuring the remaining five default tables. After all default tables are configured, return the Monitor to normal monitoring mode by exiting configuration mode. For instructions, please refer to the *How to Exit Configuration Mode* section. Be sure to choose **save default changes** after each default table is configured.

Transferring Configuration Data

Once the six tables for a single Monitor are configured, this information can be easily transferred to other Monitors in your department or unit. There are two ways to transfer configuration data: Monitor-to-Monitor or PC-to-Monitor.

PC-to-Monitor *(requires the DINAMAP MPS Configuration Tool)*

This software application runs on your PC or laptop under Windows 95 (32-bit), Windows NT or later compatible versions of either.

For PC-to-Monitor transfers, you need the following:

- DINAMAP PRO 1000 Monitor (software revision = RAC or later)
- Microsoft Windows 95 (32-bit) or Windows NT 4.0 (or later compatible versions)
- Minimum 16Mb of RAM
- 10Mb+ of unused hard disk space
- 3½ inch floppy disk drive
- VGA or higher resolution monitor
- Mouse or other Windows pointing device
- Isolated Level Convertor (p/n 001-927)
- a dual-ended RJ45 Null modem cable (P/N 683-241)

To use the DINAMAP MPS™ Configuration Tool (also referred to as the *Configurator*), you must first install it on your PC or laptop. After configuring the default tables of one Monitor, you can transfer this data to a file on your PC. Then, using the Configuator, that file can be transferred to each of the Monitors in your department, unit or hospital.

How to Install the Configurator

1. Make a copy of your master diskette and label it.
2. Insert the disk labeled, "DINAMAP MPS™ Configuration Tool" (p/n **637-196**) into your 3½ inch floppy disk drive.
3. Choose **Start** in the bottom, left corner of the Windows screen. Choose **Run**. A dialog window will appear.
4. Type **A:\INSTALL.EXE** in the space provided and choose **OK**. Another window should appear.
5. Choose **Unzip**. The program will install itself onto your computer.
6. When the process is completed, a window appears indicating a successful installation. Choose **OK** and then **Close** to complete the installation. You are now ready to use the Configurator.

How to Start the Configurator

1. Choose **Start** in the bottom, left corner of the Windows screen. Then choose **Run**. A dialog window appears.

2. Type **C:\configMPS\Configurator.exe** in the space provided and choose **OK** to start the Configurator.
3. Choose **Configure** in the Transfer Configuration. A new dialog window will appear.
4. The options **COM1** or **COM2** appear. Select the port you intend to use and choose **OK** to activate it.

If you are using **COM2**, you must re-select it each time you start the Configurator. You may also browse through your **C** drive and double click on the **Configurator.exe** icon in the **configMPS** folder to run the Configurator.

How to Transfer a Monitor's Configuration to a File

1. Make sure the Monitor's six default tables have been configured. If not, refer to How to Configure Default Tables in this manual.
2. Make sure the pre-configured Monitor, hereby referred to as the "Sending Monitor," is in configuration mode, and the Isolated Level Convertor (ILC-1927) is connected to the DB9 connector on the rear of the PRO 1000 Monitor. For instructions, refer to How to Enter Configuration Mode.
3. Connect the RJ45 Connector to Serial Port 1 on the ILC-1927, then connect the DB9 connector to COM Port 1 on your computer.
   Note: Serial Port 1 on the PRO 1000 Monitor is labelled Serial 1 above the connection point on the ILC 1927. **Do not connect to Serial Port 2.**
4. Start the DINAMAP MPS™ Configuration Tool. For instructions, please refer to How to Start the Configurator.
5. Choose **Monitor** from the **Transfer Configuration** window.
6. Choose **Browse**. Pick a location for saving the new configuration file.
   Note: This tool ONLY reads and creates ".MPS" extension files. All other files are rejected as being corrupt.
7. Once a location is chosen, type in a name. You do not need to include the ".MPS" extension, because it is automatically added.
   Note: For the ".MPS" configuration file, we recommend using the Sending Monitor's serial number as the file name.
8. Choose **Save**.
9. Press **Start Transfer**.
10. The message ***Sending ALL defaults to target monitor. To cancel, choose OK.*** appears.

If the process is interrupted during a transfer, the Sending Monitor will reboot into monitoring mode using its factory default settings and display a MEMORY LOST alarm. If this occurs, ALL configuration data for the Sending Monitor is lost and must be reconfigured.

11. Upon completion of the transfer, the message **Transfer successful!** appears. Choose **OK**.
12. Exit configuration mode from the Sending Monitor. For instructions, refer to How to Exit Configuration Mode.
13. Exit the Configurator on your PC if you do not intend to re-configure other Monitors with this file. For instructions, refer to How to Exit the Configurator. If you intend to re-configure other Monitors, see How to Transfer Configuration to another Monitor.

How to Transfer Configuration to another Monitor

1. Make sure the non-configured Monitor, hereby referred to as the Receiving Monitor, is equipped with an ILC-1927, and in configuration mode. For instructions, please refer to the How to Enter Configuration Mode section.
2. From the serial 1 port of the Receiving Monitor, connect the RJ45 end of the the null modem cable (p/n 683-242) to serial port 1 on the ILC-1927. Connect the DB9 end to COM port 1 on your PC. Note: Serial port 1 on the PRO 1000 Monitor is labelled Serial 1 on the ILC-1927. Do not connect to Serial 2.
3. Start the DINAMAP MPS™ Configuration Tool. For instructions, refer to How to Start the Configurator.
4. Choose **File** from the **Transfer Configuration** window.
5. Choose **Browse.** A window appears letting you pick a previously saved configuration file. If none exists, see How to Transfer a Monitor's Configuration to a File.
6. Once you have located a file, chose **Open** which returns you to the **Transfer Configuration** window. The Receiving Monitor must have the same software revision as the Sending Monitor.
7. Choose **Start Transfer** at the PC dialog box.
8. The message ***Receiving ALL defaults from another device. To cancel, choose OK.*** *will appear on the monitor that is recieving the tables.*

   If the process is interrupted during a transfer, the Receiving Monitor reboots in monitoring mode using its factory default settings and displays a MEMORY LOST alarm. Since the default tables did not properly update, they have been reset back to factory default settings. You must reattempt the transfer process for proper configuration of the Receiving Monitor's default tables

9. Upon completion of the transfer, the message ***Transfer complete!*** will appear. Choose **OK**. The **Transfer Configuration** window will re appear.

   After transfer, all communication settings for the Receiving Monitor will be the same as the Sending Monitor.

10. On the Receiving Monitor, exit configuration mode. For instructions, refer to the How to Exit Configuration Mode section.
11. On your PC, exit the Configurator if you do not intend to re-configure other Monitors with this configuration file. For instructions, please refer to the How to Exit the Configurator section. If you intend to re-configure other Monitors, repeat the preceding for each Monitor to be configured.

How to Exit the Configurator

1.a Choose **Exit** from the **Transfer Configuration** window,
or
1.b Choose the **File** menu choice from the background screen of the **Configurator** window and then choose **Exit**.

How to Uninstall the Configurator

1. Browse the **C** drive of your PC and locate the folder labeled **configMPS**. The entire Configurator application resides here.

2.a To remove this folder, drag it into your recycle bin,
or

2.b Right click on the folder icon and choose **delete**.

Registering Your Configuration File with CRITIKON

In our efforts to be the most admired patient monitoring company, we strive to provide the best service possible to our customers. In the event that your Monitor must be sent to CRITIKON for repairs, we will store the configuration according to the Monitor's serial number. After the Monitor has been serviced, we will restore its configuration according to this file so that you will receive pre-configured unit. However, in some cases, the configuration of a Monitor may not be retrievable. To avoid sending you a Monitor that has been reset to its factory default settings, we recommend registering your configuration file with us. Then, for those Monitors whose configuration we cannot retrieve, we will re-configure it according to the file we have on record. Additionally, having your file on record will allow us to pre-configure any loaner Monitors we send to you while you are waiting for your unit to be repaired.

How to Register the Configuration File

1. If you have not created an appropriate configuration file for the Monitors in your department, unit or hospital, refer to How to Transfer a Monitor's Configuration to a File.
2. Browse the hard drive of your PC and locate your saved configuration file.
3. Insert a blank diskette into the floppy disk drive of your PC.
4. Choose "**My Computer**" icon on the Windows screen and locate the icon representing the floppy disk drive of your PC. In most cases, this will be labeled "**3½ Floppy (A:)**".
5. Copy your configuration file to the floppy diskette by selecting the configuration file icon and dragging it on top of the floppy disk drive icon.
6. Remove the floppy disk. On the diskette label, record the serial number of each configured Monitor according to this configuration file. Also include the name of the hospital where these Monitors reside.
7. Insert the diskette into the provided diskette mailer and mail it to Critikon.
8. Upon receipt, your config file will be saved within our service department.

Monitor-to-Monitor Transfers

Once the six tables for a single Monitor have been configured, this information can be easily transferred to other Monitors in your department, unit or hospital. The pre-configured Monitor has the capability of transferring its configuration directly to another Monitor. To do Monitor-to-Monitor transfers, the two Monitors must have the same software revision. You also need the appropriate null modem cable as dictated by your particular Monitor's configuration. Contact Critikon Technical Support for details.

How to Transfer Default Tables Between Two Monitors Equipped With ILC-1927s

Both Monitors MUST have the same software revision.
Do not perform the following procedure while actively monitoring because monitoring ceases while in Configuration Mode.
Do not perform the following procedures without ILC-1927s connected to each of the participating monitors as the COM ports are not isolated.

1. If one of the Monitor's has not been previously configured, please refer to How to Configure Default Tables. In the steps that follow, the pre-configured Monitor is referred to as the Sending Monitor and the Monitor to be configured is referred to as the Receiving Monitor.
2. Make sure both Monitors are in configuration mode. For instructions, please refer to How to Enter Configuration Mode.
3. The 10 ft. dual-ended RJ45 cable (p/n 683-241) is required for this process. Insert the RJ45 connectors into the ports labelled Serial 2 on both ILC-1927s.
   Serial Port 2 on the PRO 1000 Monitor is labelled Serial 1 above the connection point on the ILC 1927. Do not connect to Serial Port 1.
4. Sending Monitor: From the **Configuration Menu,** choose **other system settings** then **Config settings**. Choose **send ALL defaults** to begin the transfer process.
5. If transfer is in progress, the message ***Sending ALL defaults to target monitor*** appears on the Sending Monitor. *To cancel, choose* ***OK***. A status bar also indicates the transfer.

   If the status bar is NOT displayed, then transfer is NOT in progress. Verify both Monitors have the same revision of software (as displayed on the Monitor's screen when it is initially turned on), that the null modem cable (CRITIKON P/N 683241) is properly connected, and that the receiving Monitor is in configuration mode.

6. If transfer is in progress, the message ***Receiving ALL defaults from another device*** appears on the Receiving Monitor. ***To cancel, choose OK***. Do NOT choose **OK** on either Monitor unless you want to cancel the transfer process.

   If the process is interrupted during a transfer, the Receiving Monitor reboots in monitoring mode using its factory default settings and displays a MEMORY LOST alarm. Since the default tables did not properly update, they have been reset back to factory default settings. You must reattempt the transfer process for proper configuration of the Receiving Monitor's default tables.

7. When transfer is completed, the message ***All defaults have been transferred!*** appears on the Receiving Monitor and both Monitors return to normal operation in configuration mode.
   After transfer, all of the communication settings of the Receiving Monitor will be the same as that of the Sending Monitor.
8. Receiving Monitor: Exit configuration mode. For instructions, please refer to the How to Exit Configuration Mode section.
9. To configure another Monitor, simply repeat the steps 2 through 8 above.

How to Transfer Default Tables Between Two Monitors Using the Wireless Port

Both Monitors MUST have the same software revision.
Do not perform the following procedure while actively monitoring because monitoring ceases while in Configuration Mode.

1. If one of the Monitor's has not been previously configured, please refer to How to Configure Default Tables. In the steps that follow, the pre-configured Monitor is referred to as the Sending Monitor and the Monitor to be configured is referred to as the Receiving Monitor.
2. Make sure both Monitors are in configuration mode. For instructions, please refer to How to Enter Configuration Mode.
3. Locate and identify the 15-pin Wireless Port beneath the Host Comms Cover on the back of the PRO 1000 Monitor. Connect 1 end of the Dual-ended DB15 null-modem cable (p/n 683240) to the Wireless Port on the Receiving Monitor. Connect the remaining end to the Sending Monitor's Wireless Port.
4. Sending Monitor: From the **Configuration Menu,** choose **other system settings** then **Config settings**. Choose **send ALL defaults** to begin the transfer process.
5. If transfer is in progress, the message ***Sending ALL defaults to target monitor*** appears on the Sending Monitor. *To cancel, choose* ***OK***. A status bar also indicates the transfer.

   If the status bar is NOT displayed, then transfer is NOT in progress. Verify both Monitors have the same revision of software (as displayed on the Monitor's screen when it is initially turned on), that the null modem cable (p/n 683240) is properly connected, and that the receiving Monitor is in configuration mode.

6. If transfer is in progress, the message ***Receiving ALL defaults from another device*** appears on the Receiving Monitor. ***To cancel, choose OK***. Do NOT choose **OK** on either Monitor unless you want to cancel the transfer process.

   If the process is interrupted during a transfer, the Receiving Monitor reboots in monitoring mode using its factory default settings and displays a MEMORY LOST alarm. Since the default tables did not properly update, they have been reset back to factory default settings. You must reattempt the transfer process for proper configuration of the Receiving Monitor's default tables.

7. When transfer is completed, the message ***All defaults have been transferred!*** appears on the Receiving Monitor and both Monitors return to normal operation in configuration mode.
   Note: After transfer, all of the communication settings of the Receiving Monitor will be the same as that of the Sending Monitor.
8. Receiving Monitor: Exit configuration mode. For instructions, please refer to the How to Exit Configuration Mode section.
9. To configure another Monitor, simply repeat the steps 2 through 8 above.

Time & Date

You can change the time and date of a Monitor by entering configuration mode. In configuration mode, the time and date does NOT need to be set for each default table. The Monitor only maintains one time and date setting that is referenced by all the default tables. After adjusting the time and/or date selections, don't forget to choose the **set new time and date** menu choice. No changes will take effect until this menu choice has been selected.

How to Change the Time and Date

1. Make sure the Monitor is in configuration mode. For instructions, please refer to the How to Enter Configuration Mode section.
2. From the **Configuration** Menu, choose **other system settings.** Choose **Config settings** then **Adjust date and time**.
3. Adjust the settings for **Month**, **Day**, **Year**, **Hour**, **Minute**, and **Second**
4. When all changes are complete, choose **set new time and date**.
   - Time and date changes are not effective until **set new time and date** is selected. Upon its selection, the time display in the upper right corner of the screen will update immediately. The date display could take up to a minute to update.
   - Time and date only needs to be configured once for all default tables.
5. If no more changes to the Monitor's configuration are necessary, exit configuration mode.
   For instructions, please refer to How to Exit Configuration Mode.

Host Communications

The Monitor has the ability to communicate with other external devices such as a central station. Using a protocol unique to CRITIKON products, waveform and vitals signs data can be serially communicated. The PRO 1000 Host Communications Manual covers the menu selections that must be set for the Monitor to properly communicate with external devices.

As described earlier in this manual, it is possible to transfer the configuration of one Monitor directly or indirectly, via a PC, to another Monitor. When this occurs, all the host communication settings of the Receiving Monitor will be the same as that of the Sending Monitor with exception of the Ethernet key. This includes the Monitor's serial unit address. After the transfer is complete, the host communication settings of the Receiving Monitor should be reviewed and reset as necessary.

Exiting Configuration Mode

Saving Your Modifications

In order to ensure that any changes made to the default tables are permanently saved it is critical to select the menu option **save default changes** prior to either powering off the monitor or selecting the **exit configuration mode** menu option. If you do not wish to save your changes, simply turn the Monitor off and any unsaved table settings will be erased.

How To Restore The Configuration Settings To The Factory Defaults

1. Use the Selectknob to select **other system settings.**
2. Rotate the Selectknob to **Config settings...,** press to select.
3. Rotate the Selectknob to **reset ALL to factory,** press to select.

   a. Selecting **reset ALL to factory** will bring forth a CAUTION query verifying the decision to reset all monitor settings to the Factory Defaults.

   b. Selecting **yes** will reset the Monitor to the factory settings. The Monitor will briefly display a blank screen and return to the Config system menu. Select **go to previous menu** then **go to main menu** to return to the main Configuration menu.

   c. Selecting no cancels the Factory reset and returns you to the Config system menu. Select **go to previous menu** then **go to main menu** to return to the Main Configuration menu.

How to Exit Configuration Mode

1. Choose **other system settings** from the **Configuration** Menu.
2. Choose **exit config mode**. The message ***This will exit configuration mode. All unsaved changes will be lost. Are you sure you want to do this?*** *appears.*
3. Choose **Yes** to exit configuration mode.
4. The Monitor will automatically reboot in normal monitoring mode.